

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION

BOARD ORDER NO. 6-98-2  
WDID NO. 6B360304020

36-AA-0044

REVISED WASTE DISCHARGE REQUIREMENTS

FOR

INACTIVE PHELAN-CLASS III LANDFILL AND TRANSFER STATION

San Bernardino County

The California Regional Water Quality Control Board, Lahontan Region (Regional Board) finds:

1. Discharger

In a letter to the Regional Board Executive Officer dated February 19, 1997, the County of San Bernardino indicated that it alone has full and complete responsibility for all activities that take place at the Landfill, including all activities undertaken by its Contractor. For the purpose of this Regional Board Order (Order) the County of San Bernardino (landowner) is referred to as the "Discharger."

Facility

The Phelan Class III Landfill has ceased accepting waste and became inactive on December 31, 1997. The inactive Phelan Class III Landfill is the inactive Landfill that stores waste.

This facility includes a Transfer Station that accepts waste that is compacted and transported off site. For the purposes of this Order, the inactive Phelan Class III Landfill and Transfer Station are referred to as the "Facility". The Facility is shown on Attachment "A" that is made a part of this Order.

3. Order History

The Regional Board previously adopted Waste Discharge Requirements (WDRs) for the Landfill under Board Order No. 6-72-87, which was adopted on October 26, 1972. Board Order No. 6-81-47 was adopted on June 18, 1981, and revised the WDRs. Board Order No. 6-87-12 was adopted on January 9, 1987, and updated the WDRs. Board Order No. 6-93-10044 was adopted on September 9, 1993, and amended the WDRs to incorporate the requirements of Title 40, Code of Federal Regulations, Parts 257 and 258 (Subtitle D) as implemented in the State of California under State Water Resources Control Board (SWRCB) Resolution No. 93-62. Board Order No. 6-87-12A2 was adopted on July 17, 1987, and amended the WDRs.

4. Reason for Action

The Landfill ceased accepting waste on December 31, 1997. The Regional Board is revising these WDRs to reflect the inactive status of the Landfill and to require the Discharger to achieve compliance with the closure and monitoring requirements of Title 27 California Code of Regulations (CCR) and Subtitle D. These WDRs also describe and document the construction of a Transfer Station and alternative final cover demonstration project at the Facility.

5. Facility Location

The Facility is located approximately two miles northwest of the community of Phelan within Section 16, T4N, R7W, SBB&M, as shown on Attachment "A," which is made part of this Order. The Facility lies within the El Mirage Valley subunit of the Mojave Hydrologic Ground Water Basin (Department of Water Resources Hydrologic Unit No. 6-43).

6. Description of Landfill

The Facility is an unlined Landfill occupying approximately 30 acres. Approximately one million cubic yards of waste and daily and intermediate cover has been placed at the Facility since it opened in 1961. The Facility is located on property owned by San Bernardino County since 1955. The Facility is classified as a Class III disposal Facility accepting only non-hazardous solid wastes in accordance with waste classification regulations contained in Title 27.

The Discharger is conducting an alternative final cover demonstration project for the Landfill. The project consists of construction of a monolithic soil cover, with an average thickness of 5 feet, over the northeast corner of this 30-acre landfill. The demonstration project will have a total footprint of about 6 acres, and will include a 3:1 north-facing slope, a 3:1 east-facing slope, and a deck area. The primary objective of this project is to calibrate a model used to design monolithic covers. The data collected from this project and other demonstration projects will be used to justify alternative monolithic final covers at this Landfill and other Landfills owned by San Bernardino County.

7. Description of Transfer Station

The Discharger is constructing a Transfer Station at the Facility. The Transfer Station is the facility that will accept waste from the surrounding community, compacts the waste and then transports the waste off site. The Transfer Station will generate a liquid waste stream consisting of wash down water from cleaning of the Transfer Station equipment. Activities at the Transfer Station are estimated to generate 1200 gallons per week of liquid waste that will be stored at the Facility in an above ground tank. Once the above ground tank is near capacity, the liquid will be tested to determine whether the effluent limitations for discharge to the on site wash water disposal system stated in the Monitoring and Reporting Program are met. Based on analytical results, the liquid will be either discharged into the on site wash water disposal system which feeds into a leachfield or transported off site to an appropriate disposal facility. For the wash water to be discharged to the on site disposal system the analytical results from sampling the wash water shall not exceed ten times the Practical Quantitation Limit (PQL) for the monitoring parameters listed in the MRP. Considering that

depth to ground water is in excess of 1,000 feet, the mean annual rainfall is approximately 6.8 inches and the potential mean evaporation rate in the area of the Facility is approximately 85 inches annually, allowing the discharge of wash water containing contaminants at concentration of ten times the PQL is considered protective of water quality. All municipal solid waste received at the Transfer Station will be transported off site to a Regional Landfill. This Order requires that only wash water is discharged to the on site wash water disposal system and the amount discharged is not to exceed 1500 gallons per week.

8. Waste Management Unit Classification

The Facility stopped accepting waste for disposal at the Landfill on December 31, 1997 and is now an inactive Class III Landfill.

9. Subtitle D Compliance Status

Board Order Amendment No. 6-93-10044 required the submittal of several items in order to comply with Subtitle D. The Discharger has submitted complete information regarding the acceptance of liquids, the existing waste footprint, the distance from the Facility to the nearest drinking water source, and whether the Facility is located in a 100 year flood plain or in a wetlands. The above listed items which have already been submitted fulfill the submittal requirements of Subtitle D as implemented by State Water Resource Control Board (SWRCB) Resolution No. 93-62.

10. Water Quality Protection Standard

The Facility's Water Quality Protection Standard (WQPS) consists of constituents of concern (including monitoring parameters), and monitoring points. The standard applies over the active life of the Landfill, closure and post-closure maintenance period, and the compliance period.

The Discharger drilled a boring at the Facility to a depth of 1,000 feet below ground surface. The boring did not encounter ground water. The Discharger installed a well (PSL-7) screened from 185 to 465 feet below ground level in the dry 1000 foot borehole. Because of the excessive depth to ground water at the Facility, this Order does not require ground water monitoring. Instead, this Order only requires unsaturated zone monitoring that is intended to detect contaminants that may be migrating downward from the Landfill to the underlying ground water. The constituents of concern, monitoring parameters and monitoring points, for the unsaturated zone are described in Monitoring and Reporting Program 98-2, which is attached to and made part of this Order.

11. Statistical Methods

Statistical analysis is not required for the unsaturated zone monitoring data. This Order does not require statistical data analysis.

12. Detection Monitoring

Pursuant to Title 27 CCR the Discharger has proposed a detection monitoring program. The current detection monitoring program has been designed to monitor the unsaturated zone for evidence of contaminant migration that may threaten ground water quality. The ground water and vadose zone monitoring system at the Landfill includes one dry well (PSL-7), five lysimeters (PSL-1, PSL-2, PSL-3, PSL-4, and PSL-6) and four vadose zone soil pore gas probes (PSG-1, PSG-2, PSG-3, and PSG-4).

13. Evaluation Monitoring

An evaluation monitoring program may be required, pursuant to Title 27 CCR, if detection monitoring data indicate evidence of a threat to ground water quality.

14. Corrective Action

A corrective action program to remediate released wastes from the Landfill may be required pursuant to Title 27 CCR should results of an evaluation monitoring program warrant a corrective action plan.

15. Site Geology

The Facility is located on the Quaternary Wrightwood alluvial fan in the southwestern Mojave Desert, just north of the San Gabriel Mountains. The alluvial fan deposits consist of Holocene-age fanglomerates composed of unconsolidated sands with some cobbles and boulders and some silt and clay. The Holocene alluvial fan sediments are estimated to be as deep as 100 feet and overlie older Quaternary alluvial deposits. The Quaternary alluvial deposits overlie the Pliocene Crowder Formation which consist of nonmarine arkosic sandstone and conglomerate, with minor siltstone, mudstone and tuff. The sediments found beneath the site are generally unconsolidated. No evidence of fracturing or Holocene faulting was found during drilling in the vicinity of the site. The total depth of the alluvium is estimated to be 1,000 feet deep. The subsurface alluvial plain gently dips to the north, following the surface topography.

16. Site Hydrogeology

Depth to ground water beneath the Facility is estimated to be in excess of 1,000 feet below ground surface. Ground water flow direction is unknown.

17. Site Surface Hydrology and Storm Water Runoff

All storm water from the Facility is regulated under the State Amended General Industrial Activities Storm Water Permit.

18. Site Topography

Site topography is shown on Attachment "A", which is made a part of this Order.

19. Climatology

The Facility has a mean annual rainfall of approximately 6.8 inches. The potential mean evaporation rate in the area of the Facility is approximately 85 inches annually.

20. Land Uses

The Facility is zoned general commercial to the southwest and rural living to the west. Up to 1,000 feet from the Facility to the north, south and east the land is zoned for commercial and industrial. There are homes west of the Facility within a 1,000 foot radius of the Facility. The proposed post-closure end use of the Facility will be non-irrigated open space.

21. Preliminary Closure and Post-Closure Maintenance

The Discharger has submitted a Preliminary Closure and Post-Closure Maintenance Plan (CPCMP). This Order requires that the Discharger review the CPCMP annually to determine if significant changes in the operation of the Facility warrant an update of the CPCMP.

22. Final Closure Postclosure

The Discharger submitted a CPCMP in June of 1997. The approval of the CPCMP is contingent upon the success of the demonstration project for the alternative monolithic cover.

23. Financial Assurance

The Discharger has provided documentation that a financial assurance fund has been developed for closure, post-closure maintenance, and potential future corrective action requirements. The fund has been developed as a single entity for all Facilities owned and/or operated by the County of San Bernardino. The fund meets the requirement of Title 27 CCR and Subtitle D for financial assurance. This Order requires the Discharger to report the amount of money available in the fund as part of the annual report. This Order also requires that the Discharger demonstrate in an annual report that the amount of financial assurance is adequate, or increase the amount of financial assurance.

24. Receiving Waters

The receiving waters are the ground waters of the El Mirage Valley subunit of the Mojave Hydrologic Ground Water Basin (Department of Water Resources Hydrologic Unit No. 6-43).

25. Lahontan Basin Plan

The Regional Board adopted a Water Quality Control Plan for the Lahontan Region (Basin Plan) which became effective on March 31, 1995. This Order implements the Basin Plan.

26. Beneficial Ground Water Uses

The present and probable beneficial uses of the ground waters of the El Mirage subunit of the Mojave Ground Water Basin as set forth and defined in the Basin Plan are:

- a. municipal and domestic supply;
- b. agricultural supply;
- c. industrial service supply; and,
- d. freshwater replenishment.

27. California Environmental Quality Act

For the Landfill, these WDRs govern an existing facility and are therefore exempt from the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000 et seq) in accordance with Section 15301 of the CEQA Guidelines. For the Transfer Station, a negative declaration was adopted by San Bernardino County Department of Planning on September 15, 1997.

28. Notification of Interested Parties

The Regional Board has notified the Discharger and all known interested parties of its intent to adopt revised WDRs for the project.

29. Consideration of Interested Parties

The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.

**IT IS HEREBY ORDERED** that the Discharger shall comply with the following:

I. DISCHARGE SPECIFICATIONS

A. Receiving Water Limitations

1. The discharge of waste shall not cause the presence of the following substances or conditions in ground waters of the El Mirage Valley subunit of the Mojave Hydrologic Ground Water Basin (Department of Water Resources Hydrologic Unit No. 6-43):

- a. any perceptible color, odor, taste, or foaming;
- b. any presence of toxic substances in concentrations that individually, collectively, or cumulatively cause detrimental physiological response in humans, plants, animals, or aquatic life;

## II. REQUIREMENTS AND PROHIBITIONS

### A. General

- 1. The waste that is stored at the Landfill shall not cause a pollution as defined in Section 13050 of the California Water Code, or a threatened pollution.
- 2. The waste stored in the Landfill shall not cause a nuisance as defined in Section 13050 of the California Water Code.
- 3. The discharge of solid wastes, leachate, or any other deleterious material to the ground waters of the El Mirage Valley subunit of the Mojave Ground Water Basin is prohibited.
- 4. The Transfer Station is the authorized waste transfer site. The storage of waste except to the authorized Transfer Station is prohibited.
- 5. The disposal sites shall be protected from inundation, washout, or erosion of wastes and erosion of covering materials resulting from a storm or a flood having a recurrence interval of once in 100 years.
- 6. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources shall not contact or percolate through solid wastes discharged at the site.
- 7. The exterior surfaces of the disposal sites shall be graded to promote lateral runoff of precipitation and to prevent ponding.
- 8. Wastes other than inert wastes shall not be placed in ponded water from any source whatsoever.
- 9. The discharge of wastes in a manner that does not maintain a five foot soil separation between the wastes and the seasonal high ground water elevation is prohibited.
- 10. At closure, all facilities must be closed in accordance with a final CPCMP approved by the Regional Board.

B. Detection Monitoring Program

The Discharger shall maintain a detection monitoring program as required in Title 27 CCR.

C. Evaluation Monitoring Program

The Discharger shall establish an evaluation monitoring program whenever there is significant evidence of a threat to ground water quality from the Facility as required in Title 27 CCR.

D. Corrective Action Program

The Discharger shall institute a CAP when required pursuant to Title 27 CCR.

III. DATA ANALYSIS

A. Nonstatistical Analysis

The Discharger shall determine whether there is significant physical evidence of a threatened impact to water quality from the Facility. Significant physical evidence may include unexplained volumetric changes in the Landfill, unexplained stress in biological communities, unexplained changes in soil characteristics, visible signs of leachate migration, concentration of constituents of concern in soil gas which may pose a threat to ground water quality, or any other change to the environment that could reasonably be expected to be the result of a threatened impact to ground water quality from the Facility.

IV. PROVISIONS

A. Rescission of Waste Discharge Requirements

Board Orders No. 6-87-12, 6-93-10044 and 6-87-12A2 are hereby rescinded.

B. Standard Provisions

The Discharger shall comply with the "Standard Provisions for Waste Discharge Requirements," dated September 1, 1994, in Attachment "B", which is made part of this Order.

C. Monitoring and Reporting

1. Pursuant to the California Water Code Section 13267(b), the Discharger shall comply with the Monitoring and Reporting Program No. 6-98-2 as specified by the Executive Officer.



2. The Discharger shall comply with the "General Provisions for Monitoring and Reporting," dated September 1, 1994, which is attached to and made part of the Monitoring and Reporting Program.

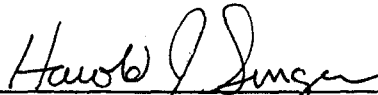
D. Closure and Post-Closure Monitoring

The CPCMP shall be updated if there is a substantial change in operations. A report shall be submitted annually indicating conformance with existing operations. To comply with Title 27 CCR, a final CPCMP shall be submitted at least 180 days prior to beginning any partial or final closure activities or at least 120 days prior to discontinuing the use of the site for waste treatment, storage or disposal, whichever is greater.

E. Financial Assurance

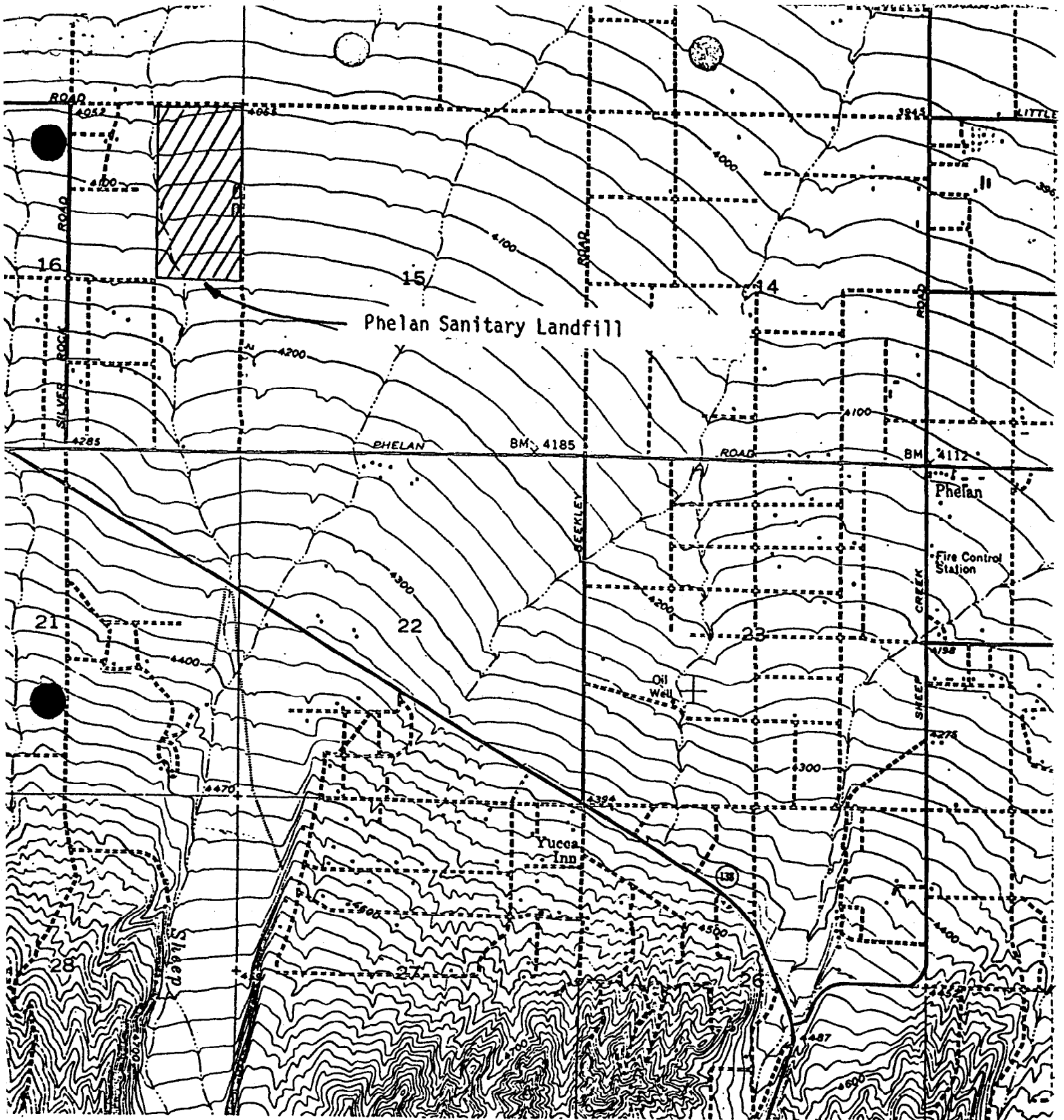
The Discharger shall submit a report annually providing evidence that adequate financial assurance pursuant to the requirements of the WDRs has been provided for closure and for potential releases. Evidence shall include the total amount of money available in the fund developed by the County. In addition, the Discharger shall either provide evidence that the amount of financial assurance is still adequate or increase the amount of financial assurance by the appropriate amount. An increase may be necessary due to inflation, a change in regulatory requirements, a change in the approved closure plan, or other unforeseen events.

I, Harold J. Singer, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by California Regional Water Quality Control Board, Lahontan Region, on January 8, 1998.



HAROLD J. SINGER  
EXECUTIVE OFFICER

- Attachments:    A. Location and Topography Map  
                      B. Standard Provisions for Waste Discharge Requirements



# ATTACHMENT "A"

## PHELAN SANITARY LANDFILL

Northwest of Phelan - Los Angeles County

E/2, NE/4, Section 16, T4N, R7W, S88&M

USGS Phelan 7.5 Minute Quadrangle

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

**STANDARD PROVISIONS**  
**FOR WASTE DISCHARGE REQUIREMENTS**

1. Inspection and Entry

The Discharger shall permit Regional Board staff:

- a. to enter upon premises in which an effluent source is located or in which any required records are kept;
- b. to copy any records relating to the discharge or relating to compliance with the Waste Discharge Requirements;
- c. to inspect monitoring equipment or records; and
- d. to sample any discharge.

2. Reporting Requirements

- a. Pursuant to California Water Code 13267(b), the Discharger shall immediately notify the Regional Board by telephone whenever an adverse condition occurred as a result of this discharge; written confirmation shall follow within two weeks. An adverse condition includes, but is not limited to, spills of petroleum products or toxic chemicals, or damage to control facilities that could affect compliance.
- b. Pursuant to California Water Code Section 13260(c), any proposed material change in the character of the waste, manner or method of treatment or disposal, increase of discharge, or location of discharge, shall be reported to the Regional Board at least 120 days in advance of implementation of any such proposal. This shall include, but not limited to, all significant soil disturbances.
- c. The Owners/Discharger of property subject to Waste Discharge Requirements shall be considered to have a continuing responsibility for ensuring compliance with applicable Waste Discharge Requirements in the operations or use of the owned property. Pursuant to California Water Code Section 13260(c), any change in the ownership and/or operation of property subject to the Waste Discharge Requirements shall be reported to the Regional Board. Notification of applicable Waste Discharge Requirements shall be furnished in writing to the new owners and/or operators and a copy of such notification shall be sent to the Regional Board.
- d. If a Discharger becomes aware that any information submitted to the Regional Board is incorrect, the Discharger shall immediately notify the Regional Board, in writing and correct that information.
- e. Reports required by the Waste Discharge Requirements, and other information requested by the Regional Board, must be signed by a duly authorized representative of the Discharger. Under Section 13268 of the California Water Code, any person failing or refusing to furnish technical or monitoring reports, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in an amount of up to one thousand dollars (\$1,000) for each day of violation.

- f. If the Discharger becomes aware that their Waste Discharge Requirements (or permit) is no longer needed (because the project will not be built or the discharge will cease) the Discharger shall notify the Regional Board in writing and request that their Waste Discharge Requirements (or permit) be rescinded.

3. Right to Revise Waste Discharge Requirements

The Regional Board reserves the privilege of changing all or any portion of the Waste Discharge Requirements upon legal notice to and after opportunity to be heard is given to all concerned parties.

4. Duty to Comply

Failure to comply with the Waste Discharge Requirements may constitute a violation of the California Water Code and is grounds for enforcement action or for permit termination, revocation and reissuance, or modification.

5. Duty to Mitigate

The Discharger shall take all reasonable steps to minimize or prevent any discharge in violation of the Waste Discharge Requirements which has a reasonable likelihood of adversely affecting human health or the environment.

6. Proper Operation and Maintenance

The Discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the Discharger to achieve compliance with the Waste Discharge Requirements. Proper operation and maintenance includes adequate laboratory control, where appropriate, and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by the Discharger, when necessary to achieve compliance with the conditions of the Waste Discharge Requirements.

7. Waste Discharge Requirement Actions

The Waste Discharge Requirements may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Discharger for waste discharge requirement modification, revocation and reissuance, termination, or a notification of planned changes or anticipated noncompliance, does not stay any of the Waste Discharge Requirements conditions.

8. Property Rights

The Waste Discharge Requirements do not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

9. Enforcement

The California Water Code provides for civil liability and criminal penalties for violations or threatened violations of the Waste Discharge Requirements including imposition of civil liability or referral to the Attorney General.

10. Availability

A copy of the Waste Discharge Requirements shall be kept and maintained by the Discharger and be available at all times to operating personnel.

11. Severability

Provisions of the Waste Discharge Requirements are severable. If any provision of the requirements is found invalid, the remainder of the requirements shall not be affected.

12. Public Access

General public access shall be effectively excluded from disposal/treatment facilities.

13. Transfers

Providing there is no material change in the operation of the facility, this Order may be transferred to a new owner or operator. The owner/operator must request the transfer in writing and receive written approval from the Regional Board's Executive Officer.

14. Definitions

- a. "Surface waters" as used in this Order, include, but are not limited to, live streams, either perennial or ephemeral, which flow in natural or artificial water courses and natural lakes and artificial impoundments of waters. "Surface waters" does not include artificial water courses or impoundments used exclusively for wastewater disposal.
- b. "Ground waters" as used in this Order, include, but are not limited to, all subsurface waters being above atmospheric pressure and the capillary fringe of these waters.

15. Storm Protection

- a. All facilities used for collection, transport, treatment, storage, or disposal of waste shall be adequately protected against overflow, washout, inundation, structural damage or a significant reduction in efficiency resulting from a storm or flood having a recurrence interval of once in 100 years.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION

MONITORING AND REPORTING PROGRAM NO. 98-2  
WDID NO. 6B360304020

FOR

INACTIVE PHELAN-CLASS III LANDFILL AND TRANSFER STATION

San Bernardino County

I. WATER QUALITY PROTECTION STANDARD

Because depth to ground water at the Facility is estimated to be greater than 1,000 feet below ground surface, the Discharger is conducting unsaturated monitoring for the purposes of detecting a threatened impact to ground water quality. The unsaturated zone monitoring system consists of soil gas monitoring, lysimeters, and a dry well. The monitoring points, constituents of concern, and monitoring parameters are described as follows:

A. Monitoring Points

The ground water and vadose zone monitoring points at the Facility includes one dry well (PSL-7), five lysimeters (PSL-1, PSL-2, PSL-3, PSL-4, and PSL-6), four vadose zone soil pore gas probes (PSG-1, PSG-2, PSG-3, and PSG-4) and a Transfer Stations wash water storage tank. The points are shown Attachment "A" of this Monitoring and Reporting Program.

B. Constituents of Concern and Monitoring Parameters

The constituents of concern and monitoring parameters for soil gas probes samples are the gases methane, carbon dioxide, oxygen, nitrogen and volatile organic constituents (VOCs) as defined by Environmental Protection Agency (EPA) Method TO-14. The constituents of concern for samples taken from the lysimeters are those constituents listed in Appendix II of 40 Code of Federal Regulations (CFR). The monitoring parameters for samples taken from lysimeters are chloride, sulfate, nitrate as nitrogen, total dissolved solids, and VOCs as defined by EPA 8260. The monitoring parameters for samples taken from the Transfer Station wash water Storage tank are the VOCs by EPA Method 8260 and SVOCs by EPA Method 8270 using the analytical method that provides for the lowest PQL.

II. MONITORING

The following data shall be collected as specified below:

A. Detection Monitoring

A detection monitoring program has been developed by the Discharger as required by Title 27 California Code of Regulations (CCR) and Title 40, Code of Federal Regulations (CFR) Parts 257 and 258 (Subtitle D). Monitoring shall consist of the collection of soil

gas samples, lysimeter samples, and water samples from all monitoring points described above. Monitoring of the well shall consist of reporting if there is any water in the well and the condition of the well. Samples shall be collected on a quarterly basis for the soil gas probes and lysimeter and at each discharge for the wash water. Samples shall be analyzed quarterly for the monitoring parameters and annually for the Constituents of Concern (COCs).

B. Monitoring Parameters

Samples shall be collected and submitted for laboratory analysis at all monitoring points quarterly for the monitoring parameters listed in this Monitoring and Reporting Program.

C. Constituents of Concern

Samples shall be collected and submitted for laboratory analysis at all monitoring points for constituents of concern listed in this Monitoring and Reporting Program.

D. Interim Cover Monitoring

The Discharger has installed several feet of interim cover materials over the Landfill. The interim cover consists of native soil material, and has been graded to a slope which is intended to promote runoff and prevent ponding. The Discharger shall monitor the condition of the interim cover material to evaluate the cover's capability to promote runoff and prevent ponding.

III. DATA ANALYSIS

Nonstatistical Method

In accordance with the WDRs, the Discharger shall conduct non-statistical analysis of unsaturated zone monitoring data to determine if there is evidence of a threatened impact to ground water quality. Evidence can include time series plots of soil gas data, vegetation loss, or soil discoloration. Each required monitoring report shall comment on these physical elements.

IV. REPORTING REQUIREMENTS

A. Scheduled Reports To Be Filed With The Regional Board

The following periodic reports shall be submitted to the Regional Board as specified below.

1. Quarterly Monitoring Reports

Quarterly monitoring reports shall be submitted to the Regional Board on the last day of the month following the quarter.

- a. Results of laboratory analysis of soil gas sampling, wash water, lysimeter and non-statistical data analysis shall be submitted to the Regional Board on the last day of the month following the quarter. Non-statistical analysis shall include time series plots for all soil gas COCs at all monitoring points.
- b. A letter transmitting the essential points in each report shall accompany each report. The letter shall include a discussion of any requirement violations found since the last report was submitted, and shall describe actions taken or planned for correcting those violations.
- c. If the Discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting this schedule will be satisfactory. If no violations have occurred since the last submittal, this shall be stated in the letter of transmittal.
- d. A map or aerial photograph showing the locations of the monitoring points.
- e. The weakly volume of water discharged to the on site wash water disposal system.

2. Annual Report

On or before January 31, 1998, and before January 31 every year thereafter the Discharger shall submit an annual report to the Regional Board. This report shall include the items described in the General Provisions for Monitoring and Reporting.

3. General Provisions

The Discharger shall comply with Attachment "B," the "General Provisions for Monitoring and Reporting," dated September 1, 1994, which is attached to and made part of this Monitoring and Reporting Program.

Ordered by:



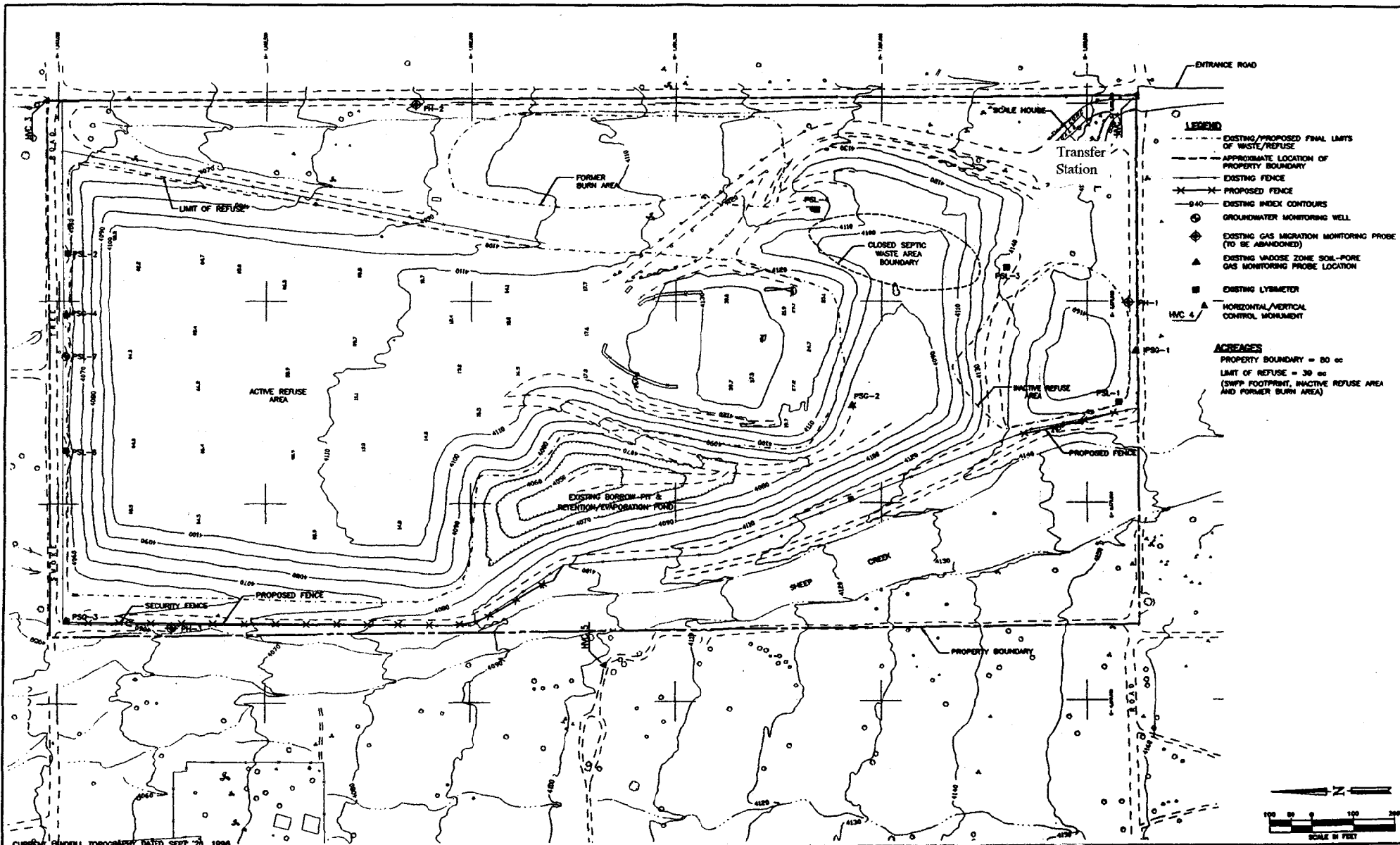
Dated: January 8, 1998

HAROLD J. SINGER  
EXECUTIVE OFFICER

Attachments:

- A. Location of Monitoring Points
- B. General Provisions for Monitoring and Reporting





CURRENT BUNDFILL TOPOGRAPHY DATED SEPT. 23, 1998

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PREPARED BY

BRUNN A. STEIN

## LOCATION OF MONITORING POINTS

ATTACHMENT "A"

COUNTY OF SAN BERNARDINO  
WASTE SYSTEM DIVISION

PHILAN LANDFILL  
FINAL CLOSURE PLAN  
SITE PLAN

DATE

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PROJECT NO.

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION

**GENERAL PROVISIONS**  
FOR MONITORING AND REPORTING

1. **SAMPLING AND ANALYSIS**

- a. All analyses shall be performed in accordance with the current edition(s) of the following documents:
  - i. Standard Methods for the Examination of Water and Wastewater
  - ii. Methods for Chemical Analysis of Water and Wastes, EPA
- b. All analyses shall be performed in a laboratory certified to perform such analyses by the California State Department of Health Services or a laboratory approved by the Regional Board. Specific methods of analysis must be identified on each laboratory report.
- c. Any modifications to the above methods to eliminate known interferences shall be reported with the sample results. The method used shall also be reported. If methods other than USEPA approved methods or Standard Methods are used, the exact methodology must be submitted for review and must be approved by the Regional Board prior to use.
- d. The Discharger shall establish chain-of-custody procedures to ensure that specific individuals are responsible for sample integrity from commencement of sample collection through delivery to an approved laboratory. Sample collection, storage and analysis shall be conducted in accordance with an approved Sampling and Analysis Plan (SAP). The most recent version of the approved SAP shall be kept at the facility.
- e. The Discharger shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to ensure accuracy of measurements, or shall ensure that both activities will be conducted. The calibration of any wastewater flow measuring device shall be recorded and maintained in the permanent log book described in 2.b, below.
- f. A grab sample is defined as an individual sample collected in fewer than 15 minutes.
- g. A composite sample is defined as a combination of no fewer than eight individual samples obtained over the specified sampling period at equal intervals. The volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling. The sampling period shall equal the discharge period, or 24 hours, whichever period is shorter.

## 2. OPERATIONAL REQUIREMENTS

### a. Sample Results

Pursuant to California Water Code Section 13267(b), the Discharger shall maintain all sampling and analytical results including: strip charts; date, exact place, and time of sampling; date analyses were performed; sample collector's name; analyst's name; analytical techniques used; and results of all analyses. Such records shall be obtained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.

### b. Operational Log

Pursuant to California Water Code Section 13267(b), an operation and maintenance log shall be maintained at the facility. All monitoring and reporting data shall be recorded in a permanent log book.

## 3. REPORTING

- a. For every item where the requirements are not met, the Discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.
- b. Pursuant to California Water Code Section 13267(b), all sampling shall be made available to the Regional Board upon request. Results shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.
- c. The Discharger shall provide a brief summary of any operational problems and maintenance activities to the Regional Board with each monitoring report. Any modifications or additions to, or any major maintenance conducted on, or any major problems occurring to the wastewater conveyance system, treatment facilities, or disposal facilities shall be included in this summary.
- d. Monitoring reports shall be signed by:
  - i. In the case of a corporation, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;
  - ii. In the case of a partnership, by a general partner;

- iii. In the case of a sole proprietorship, by the proprietor;
  - iv. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.
- e. Monitoring reports are to include the following:
- i. Name and telephone number of individual who can answer questions about the report.
  - ii. The Monitoring and Reporting Program Number.
  - iii. WDID Number.
- f. Modifications

This Monitoring and Reporting Program may be modified at the discretion of the Regional Board Executive Officer.

4. NONCOMPLIANCE

Under Section 13268 of the Water Code, any person failing or refusing to furnish technical or monitoring reports or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in an amount of up to one thousand dollars (\$1,000) for each day of violation under Section 13268 of the Water Code.